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AGERE SYSTEMS INC.

NOTICE OF ALLOWANCE AND FEE(S) DUE

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03/08/2004

Docket Administrator Agere Systems Inc. P.O. Box 614 Berkeley Heights, NJ 07922-0614

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EXAMINER

NGUYEN, JOHN B

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PAPER NUMBER

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DATE MAILED: 03/08/2004

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09/966,204	09/28/2001		THE BOCKET NO.	CONFIRMATION NO.
03.300,204	09/28/2001	Yanling Sun	· -	

TTLE OF INVENTION: PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	£1230		15.12.22(0) 202	DATE DUE
•	110	\$1330	\$300	\$1630	06/08/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. 'ROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. 'HIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON ETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

HE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE 1AILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. TATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE EFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR IN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL E REGARDED AS ABANDONED.

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Review the SMALL ENTITY status shown above.

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- Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- . PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with our ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be impleted and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be mpleted and an extra copy of the form should be submitted.
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PART B - FEE(S) TRANSMITTAL

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 90966,204 97,28,2001 Yanling Sun 2 4442 ITILE OF INVENTION: PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE CIRCUIT AS WELL AS A VOLTAGE CIRCUIT AS WELL AS	INCTRUCTIONS, TO			or <u>Fax</u>	(703) 746-4000		
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Docket Administrator Ager Systems Inc. P.O. Box 614 Berkeley Heights, NJ 07922-0614 Deckel Administrator Ager Systems Inc. P.O. Box 614 Deckeley Heights, NJ 07922-0614 Deckeley Heights, NJ 07922-0614 Deckeley Heights, NJ 07922-0614 Deckeley Heights, NJ 07922-0614 Deckeley Heights, NJ 0792-0614 Deckeley Heights, NJ 0792-0614 D		7590 03/08/2004			papers. Each addition	mal namer such as an assistant	for any other accompanying
Agerc Systems Inc. P.O. Box 614 Berkeley Heights, NJ 07922-0614 Service of the Missilian of Termination is bring deposited with the UP Po. Box 614 Berkeley Heights, NJ 07922-0614 APPLICATION NO. FILING DATE FIRST MAMED INVENTOR ATTORNEY DOCKET NO. CONFRMATION NO. 09966,204 O9966,204 O9782/2001 Yanling Sun 2 4442 APPLICATION PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS USED IN A PHASE-LOCKED LOOP CIRCUIT AS WELL AS A VOLTAGE-CONTROLLED OSCILLATOR AS US	Docket Adminis					are or manning or dansmission.	
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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

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Agere Systems Inc.			NGUYEN, JOHN B		
P.O. Box 614 Berkeley Heights, NJ 07922-0614			ART UNIT	PAPER NUMBER	
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			DATE MAILED: 03/08/2004		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	A!: ::	<i>&</i>
	Application No.	Applicant(s)
Notice of Allowability	09/966,204	SUN, YANLING
Woulde of Allowability	Examiner	Art Unit
	John DAL	1.4.5
	John B Nguyen	2819
The MAILING DATE of this communication claims being allowable, PROSECUTION ON THE MERI rewith (or previously mailed), a Notice of Allowance (PTO) TICE OF ALLOWABILITY IS NOT A GRANT OF PATE the Office or upon petition by the applicant. See 37 CFR	DL-85) or other appropriate commu	this application. If not included
This communication is responsive to		
The allowed claim(s) is/are <u>1-9</u> .		
The drawings filed on <u>08/25/03</u> are accepted by the E	Examiner.	
a) ☑ All b) ☐ Some* c) ☐ None of the:	y under 35 U.S.C. § 119(a)-(d) or	(f) .
1. Certified copies of the priority documents	have been received.	
Certified copies of the priority documents	have been received in Application	No
3. Copies of the certified copies of the priorit	y documents have been received i	in this notional at a second second
International Bureau (PCT Rule 17.2(a)).	ir this riational stage application from the
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licant has THREE MONTHS FROM THE "MAILING DATE w. Failure to timely comply will result in ABANDONMENT	of this communication to file a ref	eply complying with the requirements noted E-MONTH PERIOD IS NOT EXTENDABLE
A SUBSTITUTE OATH OR DECLARATION must be so DRMAL PATENT APPLICATION (PTO-152) which gives r	also the state of	
CORRECTED DRAWINGS must be submitted.		
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(a) ☐ including changes required by the Notice of Drafts1) ☐ hereto or 2) ☐ to Paper No	person's Patent Drawing Review (PTO-948) attached
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(b) including changes required by the proposed drawir	g correction filed, which h	has been approved by the Examiner.
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Part of Paper No. 12

Application/Control Number: 09/966,204

Art Unit: 2819

Page 2

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-9 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The prior art fails to show a phase-locked-loop circuit comprising: a voltage-controlled-oscillator which includes at least one resonator circuit for driving the oscillator, wherein during operation the resonator circuit runs at a resonator frequency to drive the oscillator at an oscillator output frequency which is an integer multiple greater than one of the resonator frequency as called for in claim 1. Therefore, claims 1-9 are presently allowed.

Conclusion

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B Nguyen whose telephone number (571) 272-1808. The examiner can normally be reached on 8AM-4:30PM M-F.

John B. Nguyen February 28, 2004

Primary Examiner